

QuickSplit™ Makeup-Flow Splitters

for Mass Directed Fraction Collection

Mass directed Fraction collection in HPLC/MS

The *ASI QuickSplit* Makeup-Flow Splitter is designed for post-column flow splitting applications where a small amount of flow from an HPLC column is efficiently combined with a makeup-flow before it reaches the detector. Although there are many variations of this type of application, one of the most common involves splitting a small portion of the outlet flow from a preparative HPLC column which is then combined and diluted with a makeup-flow (**Figure below**). The combined makeup-flow is used by a detector, typically Mass Spectrometer, UV or other detectors to trigger fraction collection from the remaining preparative flow. A minimum delay time of 5 seconds (maximum inlet flow) is caused by the delay coil built into the splitter to insure proper sequencing between detection and fraction collection. Unique manifold design eliminates tees and fittings within the splitter resulting in extremely low dead volume and peak dispersion. An additional binary splitter can be added after the splitter to allow additional splitting of the makeup-flow stream prior to entering the detector. Open access to all components simplifies routine maintenance and minimizes down time. Split ratio accuracy is +/- 10% for all stated values. **Custom splitter configurations (CS) are available for both fixed and adjustable splitters to meet specific application requirements. If you have questions about which splitter is right for your application, please contact the technical support group at ASI.**

Diagram of HPLC/MS System with Makeup-Flow Splitter

While the diagram below does not cover all possible Makeup-Flow Splitter configurations, it depicts the most common application. *ASI QuickSplit* Makeup-Flow Splitter specifications should be reviewed carefully before making your splitter selection.

